

# MANUFACTURING EXTENSION PARTNERSHIP

## Success Stories from the Field

### Bostik, Inc

#### Georgia Manufacturing Extension Partnership

#### Bostik, Inc. Taps Georgia Tech's Resources for Energy Savings

##### Client Profile:

Bostik, Inc. is the world leader in the manufacture and supply of adhesives and sealants, for the construction, transportation, packaging, personal care and hygiene, and industrial assembly markets. The company employs 26 people at its facility in Calhoun, Georgia.

##### Situation:

Bostik employees operate on a smaller scale, but they still needed to use energy efficiently. Bostik's plant manager, Ray Davis, and production manager, Dan Conetta, selected Georgia Tech's Enterprise Innovation Institute (EI2), a NIST MEP network affiliate, to help implement their energy reduction program because of its expertise in energy reduction and Lean manufacturing. EI2 offers Georgia manufacturers a three-step program to identify and implement operations for immediate energy cost savings, adopt a system of best practices to sustain energy cost reductions and assist with certification in ANSI/MSE 2000-2008, a national standard for energy management adopted by the American National Standards Institute. "The level of expertise and the availability make the Enterprise Innovation Institute a valuable resource for any company," said Conetta.

##### Solution:

EI2's energy specialist, Jessica Brown, visited the Bostik facility to identify areas where energy improvement could be realized. She shared industry best practices, and provided advice and consultation on the procurement of diagnostic tools for energy reduction purposes. Brown made a number of recommendations for Bostik, including utilizing more efficient fluorescent bulbs, reducing peak load by staggering equipment startup, relocating the air compressor intake from indoors to outdoors, discontinuing the unnecessary use of compressed air, reducing boiler blow-down in the summer, recovering steam condensate and properly insulating the boiler and steam piping. "The Calhoun facility was using outdated and inefficient T12 fluorescent bulbs to light the office areas," Brown explained. "T8 fluorescent lamps with electronic ballasts produce equivalent light output with less power input and have become the standard for new fixtures and retrofits in this application." As a result of Brown's assistance, Bostik has reduced its energy consumption by an estimated 56 percent. Conetta also notes that the energy audit yielded non-monetary results -- a 'cultural shift' towards energy reduction awareness and a reduced corporate energy footprint.

##### Results:

\* Realized \$40,000 in cost savings.

##### Testimonial:

"Although the intent was not for Calhoun to be a model or pilot plant, many of the best practices which originated at this facility were leveraged and other facilities benefited from our experience with Georgia

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Tech."

Dan Conetta, Production Manager